

FIGURE 1A

110.0

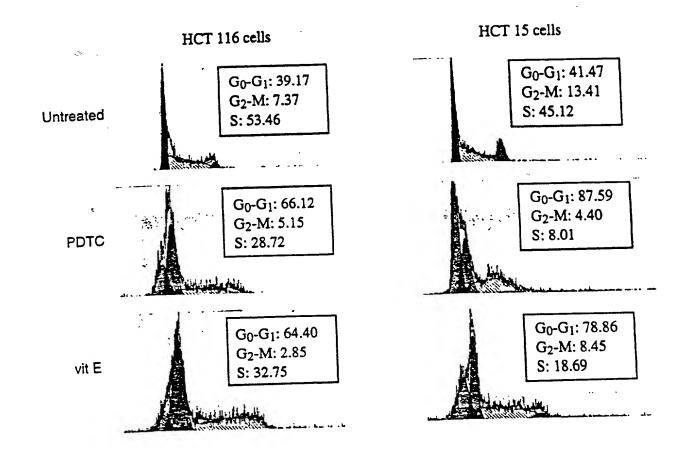


FIGURE 1B

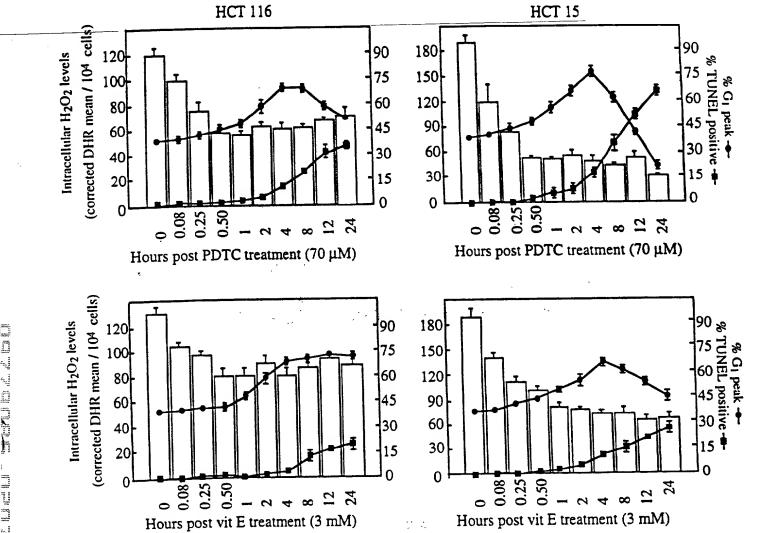


FIGURE 1C

Figure 1D

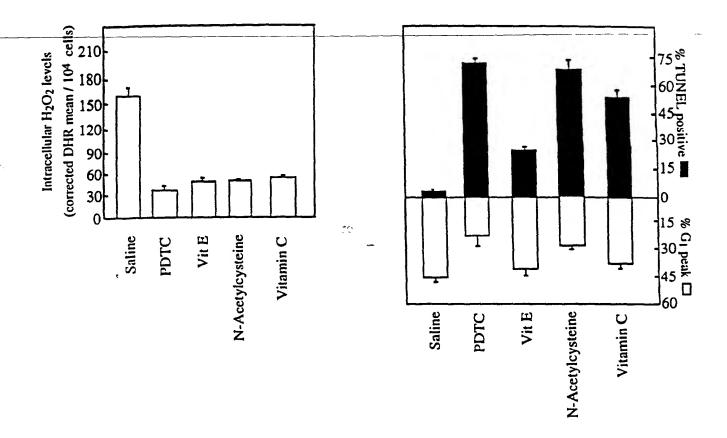


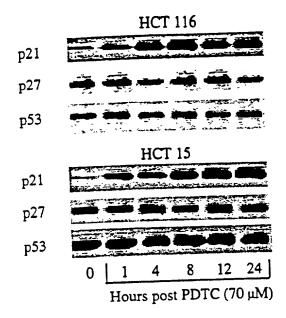
Figure 1E

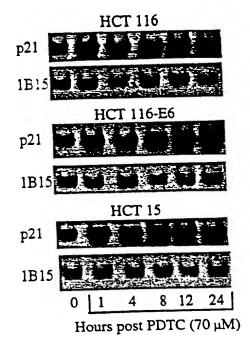
Sensitization of HCT 116 and HCT 15 colon cancer cells to chemotherapeutic agents by PDTC (70 µM) or vitamin E (3 mM)

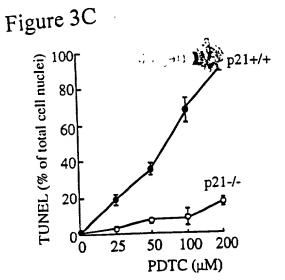
Cell line	Drug		IC50 (μM) <sup>a</sup>	
		- Antioxidant	+PDTC	+vitamin E
HCT 116	5FU	3.8 (±0.21)	1.5 (±0.29)	$1.7 (\pm 0.20)$
	Doxorubicin	0.32 (±0.07)	$0.09 (\pm 0.08)$	0.13 (±0.05)
HCT 15	5FU	11.4 (±0.11)	1.01 (±0.09)	1.4 (±0.10)
	Doxorubicin	1.51 (±0.07)	0.11 (±0.05)	0.17 (±0.04)

<sup>&</sup>lt;sup>a</sup>The concentration of 5-FU or doxorubicin required to reduce soft agar colony formation by 50% (±s.e.m.). Underscored: signficantly different from -antioxidant group (P<0.01), as determined by analysis of variance with multiple comparison adjustment.

Materials, dili







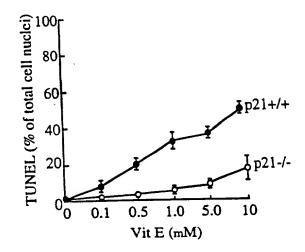
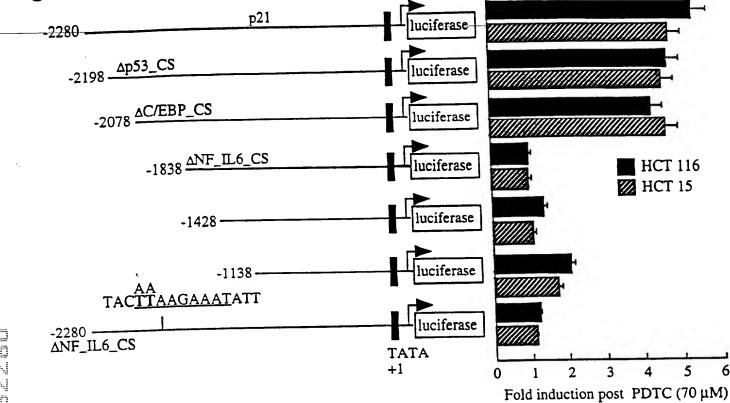
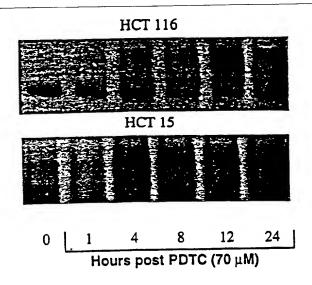


Figure 4A





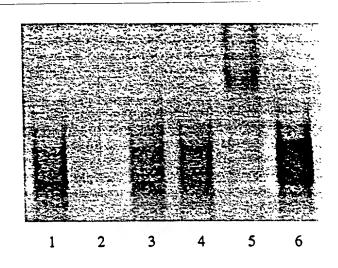


Figure 4C

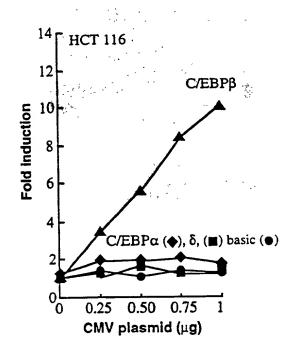
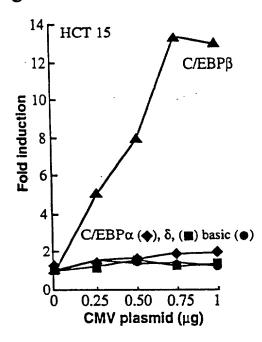
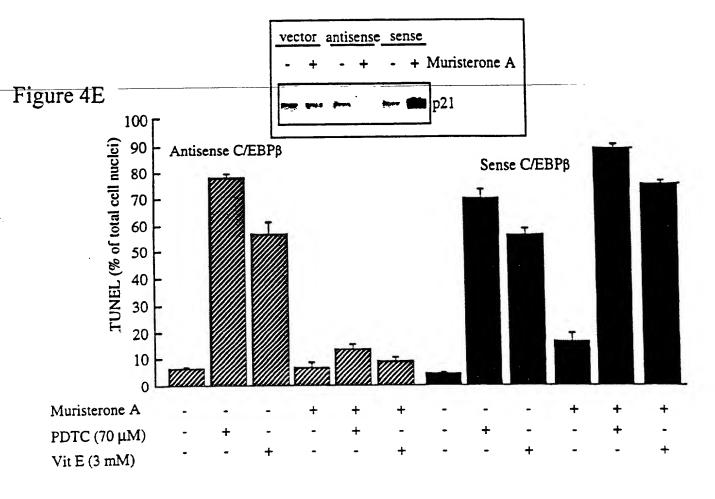
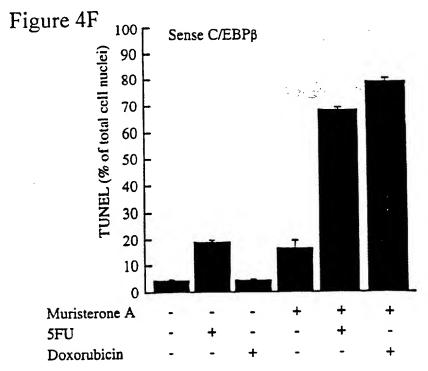


Figure 4D







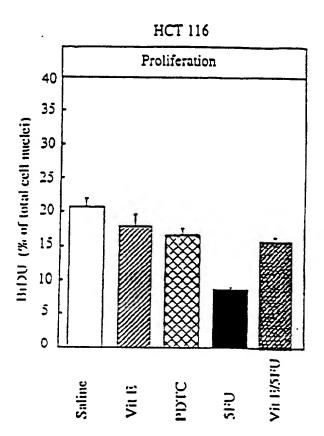


Figure 5A

DIN

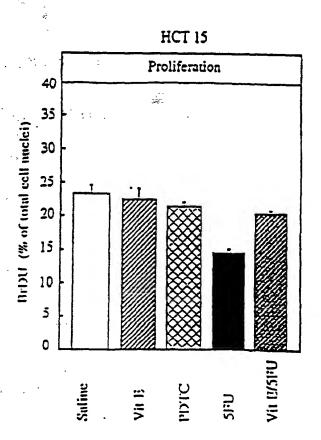


FIGURE 5B

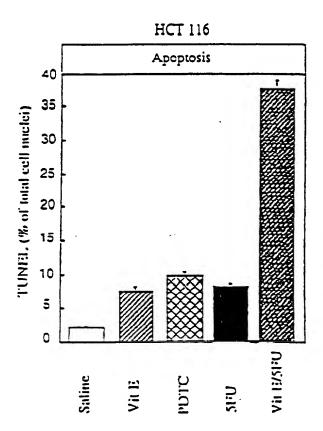


FIGURE 6A

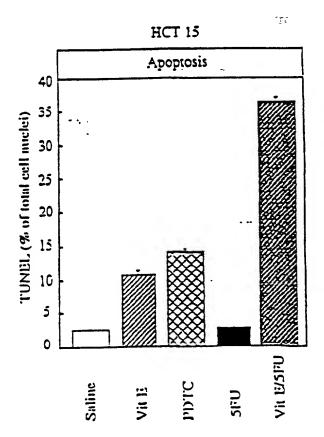


FIGURE 6B

MIDSTITE

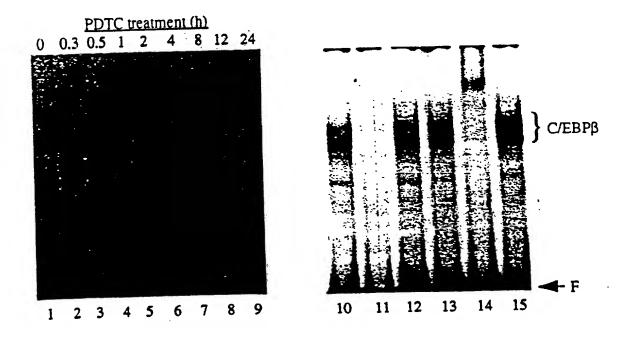


Figure 7A

PDTC treatment (h) 0 0.3 0.5 1 2 4 8 12 24

C/EBPβ
2.3 kb mRNA

1B15
0.9 kb mRNA

Total cell lysate
Western Blot

Figure 7B

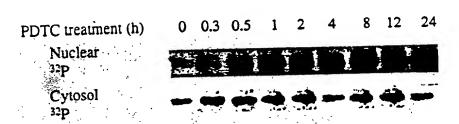


Figure 7C

Figure 713

## PDFC DAPHC/IBPB Control 9.181-13 Blocked antisera

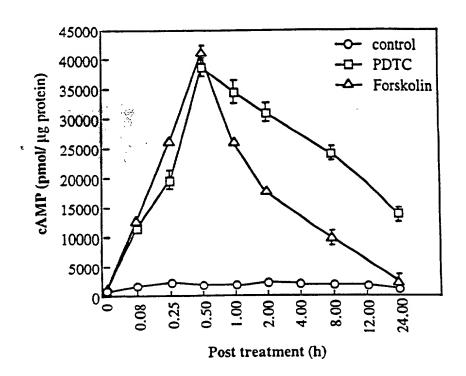


FIGURE 8A

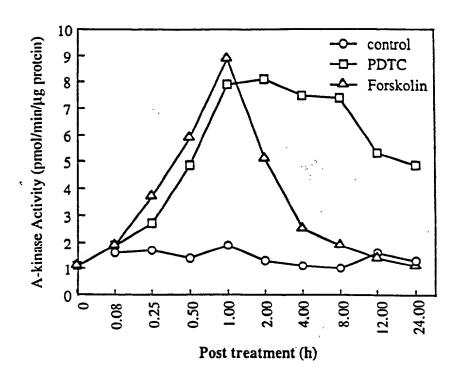
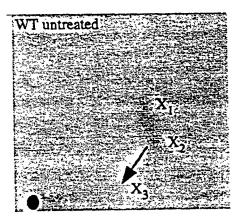


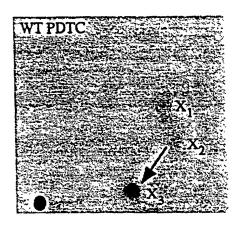
FIGURE 8B

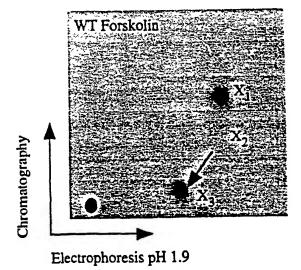
Figure 9A

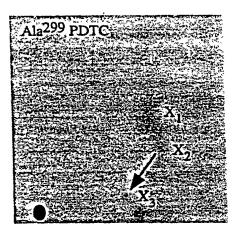
Control PDTC Forskolin

Figure 9B Trypsin cleavage



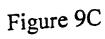


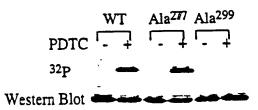


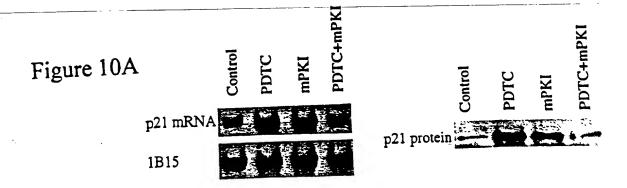


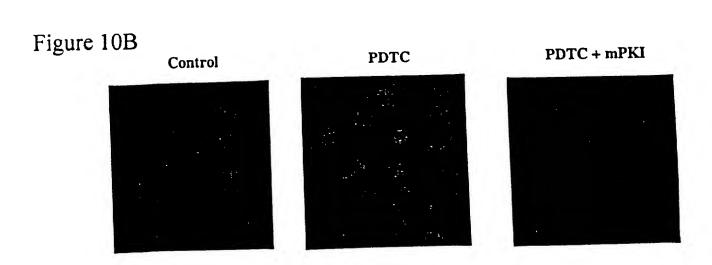
i)

188119 51



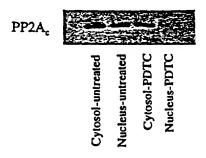






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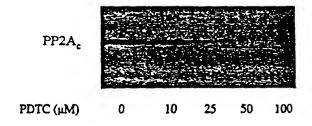
## Carboxylmethylation of PP2Ac is Inhibited by Antioxidants



DKO-1 cells were incubated in serum-containing media containing [methyl-³H]S-adenosyl methionine and/or 70μM PDTC for 3 hours. Cytosolic or nuclear fractions were prepared and C/EBPβ immuno-precipitated using standard methods. Antibody/antigen complexes were resolved by SDS-PAGE and the presence of PP2Ac was detected by fluorography (overnight).

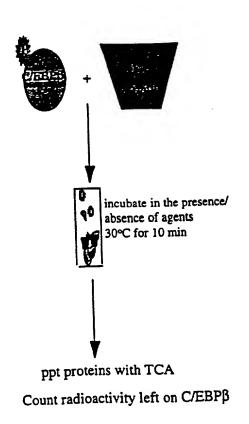
## FIGURE 12

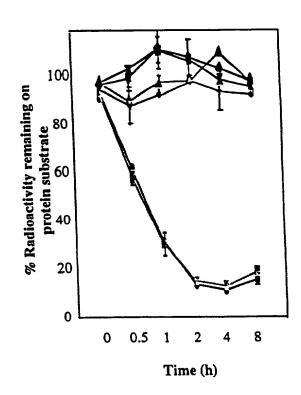
Antioxidants Inhibit Methyltransferase Activity Against PP2Ac



PP2A<sub>AC</sub> was incubated in the presence of [methyl]<sup>3</sup>H]S-adenosyl methionine, increasing concentrations of PDTC and partially purified rat methyltransferase for 30 min at 37C. The reaction was terminated by the addition of SDS-sample buffer. Samples were resolved by SDS-PAGE and the presence of methylated PP2A dimers visualized by fluorography.

## PDTC Inhibits PP2A, but not PP1, Activity





- --- Control
- -- I2 (PP1)
- ▲ Okadaic acid (PP1 and PP2)
- **→**PDTC
- + I2+PDTC
- Okadaic acid+PDTC

Figure 13

Probed with anti-C/EΒPβ

Probed with anti-PP2Ac



Rat brain extracts



Partially purified metthyltransferase



Rat brain extracts



10,011,01

Partially purified metthyltransferase